KOENIG
step forward

Microsoft Solutions Partner
Microsoft Cloud Training Services

KOENIG SOLUTIONS · COURSE OUTLINE

Active Directory Management via PowerShell

Learn to automate Active Directory administration and Windows PowerShell scripting, from users and groups to permissions and replication.

3 Days	10	32
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course covers Windows PowerShell fundamentals, including command syntax and finding help, before setting up an environment for automating Active Directory administration. It then works through installing the Active Directory PowerShell module and connecting to Active Directory, followed by managing users, groups, computers, permissions, and replication and sites through PowerShell. It also covers working with the PowerShell pipeline to select, sort, filter, and pass data, and closes with PowerShell scripting, covering script constructs, variables and data structures, user input, error handling, and script signing.

WHO THIS COURSE IS FOR

- **System Administrators**
- **Active Directory Administrators**
- **IT Support Engineers**
- **Infrastructure Engineers**
- **Network Administrators**

LEARNING OBJECTIVES

- Explain Windows PowerShell command syntax and help resources
- Configure the Active Directory PowerShell module and connections
- Manage Active Directory users, including creation and property changes
- Manage Active Directory groups, including creation and property changes
- Manage Active Directory computers and domain joining
- Apply permissions management including assignment and removal
- Troubleshoot Active Directory replication and site issues
- Develop PowerShell scripts using variables, arrays, and error handling

COURSE SYLLABUS

10 Modules, 32 Topics

01

Getting Started with Windows PowerShell

TOPICS

- Windows PowerShell overview
- Understand Windows PowerShell command syntax
- Find commands and get help in Windows PowerShell

02

Introduction: Why Automate Active Directory Administration with PowerShell?

TOPICS

Setting up your environment

03

Getting Started with Active Directory PowerShell

TOPICS

- Installing the Active Directory PowerShell module
- Connecting to Active Directory

04

Automating Active Directory User Management

TOPICS

Managing users with PowerShell · Creating, updating, and deleting users · Modifying user properties

05

Automating Active Directory Group Management

TOPICS

Managing groups with PowerShell · Creating, updating, and deleting groups · Modifying group properties

06

Automating Active Directory Computer Management

TOPICS

Managing computers with PowerShell · Joining computers to the domain · Modifying computer properties

07

Automating Active Directory Permissions Management

TOPICS

Managing permissions with PowerShell · Assigning and removing permissions · Modifying permission properties

08

Automating Active Directory Replication and Site Management

TOPICS

- Managing replication and sites with PowerShell
- Modifying replication and site properties
- Troubleshooting replication issues

09

Working with the Windows PowerShell Pipeline

TOPICS

Understand the pipeline · Select, sort, and measure objects · Filter objects out of the pipeline · Send and pass pipeline data as output

10

Windows PowerShell Scripting

TOPICS

- Introduction to scripting with Windows PowerShell
- Script constructs
- Variables, Arrays, Hash Table
- Import data from files
- Accept user input
- Troubleshooting and error handling
- Signing a script

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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